

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/525,126
Source: P4710
Date Processed by STIC: 3/4/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/525,126

CRF Edit Date: 3/8/05
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: corrected <1507, <1517 numeric identifiers



PCT10

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

3 <110> APPLICANT: NATIONAL RESEARCH COUNCIL OF CANADA
 5 <120> TITLE OF INVENTION: A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM
 6 ANTIMICROBIAL PEPTIDES FROM BONY FISH
 8 <130> FILE REFERENCE: 6899-6/PAR
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/525,126
 C--> 10 <141> CURRENT FILING DATE: 2005-02-18
 10 <150> PRIOR APPLICATION NUMBER: PCT/CA03/01323
 11 <151> PRIOR FILING DATE: 2003-08-22
 13 <150> PRIOR APPLICATION NUMBER: 60/404,922
 14 <151> PRIOR FILING DATE: 2002-08-22
 16 <160> NUMBER OF SEQ ID NOS: 329
 18 <170> SOFTWARE: PatentIn Ver. 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 11
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 27 peptide
 29 <400> SEQUENCE: 1
 30 Phe Phe Lys Lys Ala His Val Gly Lys His
 31 1 5 10
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 32
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
 42 <400> SEQUENCE: 2
 43 ttcttcaaga aggcycyca ygtsggmaag ca 32
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 11
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Artificial Sequence
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 53 peptide
 55 <400> SEQUENCE: 3
 56 His Val Gly Lys Ala Ala Leu Thr His Tyr Leu
 57 1 5 10
 60 <210> SEQ ID NO: 4
 61 <211> LENGTH: 32
 62 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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72 <210> SEQ ID NO: 5
73 <211> LENGTH: 20
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
80 <400> SEQUENCE: 5
81 gcccactttg tattcgcaag 20
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
92 <400> SEQUENCE: 6
93 ctgaaggctc cttcaaggcg 20
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 7
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
103 peptide
105 <400> SEQUENCE: 7
106 Met Lys Phe Thr Ala Thr Phe
107 1 5
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 21
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
118 <400> SEQUENCE: 8
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122 <210> SEQ ID NO: 9
123 <211> LENGTH: 6
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
129 peptide
131 <400> SEQUENCE: 9
132 Lys Arg Ala Val Asp Glu
133 1 5

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RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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136 <210> SEQ ID NO: 10
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138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
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144 <400> SEQUENCE: 10
145 tcatcgactg cgcgctt 17
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 7
150 <212> TYPE: PRT
151 <213> ORGANISM: Pleuronectes americanus
153 <400> SEQUENCE: 11
154 Lys Gly Arg Trp Leu Glu Arg
155 1 5
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Pleuronectes americanus
163 <400> SEQUENCE: 12
164 aagggcaggt gggtggaaag g 21
167 <210> SEQ ID NO: 13
168 <211> LENGTH: 6
169 <212> TYPE: PRT
170 <213> ORGANISM: Pleuronectes americanus
172 <400> SEQUENCE: 13
173 Tyr Gln Glu Gly Glu Glu
174 1 5
177 <210> SEQ ID NO: 14
178 <211> LENGTH: 17
179 <212> TYPE: DNA
180 <213> ORGANISM: Pleuronectes americanus
182 <400> SEQUENCE: 14
183 cctccccct cctggta 17
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 7
188 <212> TYPE: PRT
189 <213> ORGANISM: Pleuronectes americanus
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193 1 5
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 21
198 <212> TYPE: DNA
199 <213> ORGANISM: Pleuronectes americanus
201 <400> SEQUENCE: 16
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205 <210> SEQ ID NO: 17
206 <211> LENGTH: 6

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RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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207 <212> TYPE: PRT
208 <213> ORGANISM: Pleuronectes americanus
210 <400> SEQUENCE: 17
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216 <211> LENGTH: 18
217 <212> TYPE: DNA
218 <213> ORGANISM: Pleuronectes americanus
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224 <210> SEQ ID NO: 19
225 <211> LENGTH: 20
226 <212> TYPE: DNA
227 <213> ORGANISM: Pleuronectes americanus
229 <400> SEQUENCE: 19
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234 <210> SEQ ID NO: 20
235 <211> LENGTH: 7
236 <212> TYPE: PRT
237 <213> ORGANISM: Pleuronectes americanus
239 <400> SEQUENCE: 20
240 Phe Leu Gly Ala Leu Ile Lys
241   1           5
244 <210> SEQ ID NO: 21
245 <211> LENGTH: 21
246 <212> TYPE: DNA
247 <213> ORGANISM: Pleuronectes americanus
249 <400> SEQUENCE: 21
250 ttcttaggag cccttatcaa a
253 <210> SEQ ID NO: 22
254 <211> LENGTH: 6
255 <212> TYPE: PRT
256 <213> ORGANISM: Pleuronectes americanus
258 <400> SEQUENCE: 22
259 Tyr Asp Glu Gln Gln Glu
260   1           5
263 <210> SEQ ID NO: 23
264 <211> LENGTH: 18
265 <212> TYPE: DNA
266 <213> ORGANISM: Pleuronectes americanus
268 <400> SEQUENCE: 23
269 ctctgtgtgc tcgtcata
272 <210> SEQ ID NO: 24
273 <211> LENGTH: 6
274 <212> TYPE: PRT
275 <213> ORGANISM: Pleuronectes americanus
277 <400> SEQUENCE: 24
278 His Gly Arg His Ala Ala

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RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:43

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

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279   1           5
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283 <211> LENGTH: 18
284 <212> TYPE: DNA
285 <213> ORGANISM: Pleuronectes americanus
287 <400> SEQUENCE: 25
288 catggtcgtc atgctgcc                      18
291 <210> SEQ ID NO: 26
292 <211> LENGTH: 20
293 <212> TYPE: DNA
294 <213> ORGANISM: Pleuronectes americanus
296 <400> SEQUENCE: 26
297 ctgaaggctc cttcaaggcg                    20
300 <210> SEQ ID NO: 27
301 <211> LENGTH: 6
302 <212> TYPE: PRT
303 <213> ORGANISM: Pleuronectes americanus
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306 Gly Phe Leu Phe His Gly
307   1           5
310 <210> SEQ ID NO: 28
311 <211> LENGTH: 18
312 <212> TYPE: DNA
313 <213> ORGANISM: Pleuronectes americanus
315 <400> SEQUENCE: 28
316 gggatttctt tttcatgg                      18
319 <210> SEQ ID NO: 29
320 <211> LENGTH: 6
321 <212> TYPE: PRT
322 <213> ORGANISM: Pleuronectes americanus
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325 Ser Phe Asp Asp Asn Pro
326   1           5
329 <210> SEQ ID NO: 30
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331 <212> TYPE: DNA
332 <213> ORGANISM: Pleuronectes americanus
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335 gggttgtcat cgaatgag                      18
338 <210> SEQ ID NO: 31
339 <211> LENGTH: 6
340 <212> TYPE: PRT
341 <213> ORGANISM: Pleuronectes americanus
344 <400> SEQUENCE: 31
345 Arg Ser Thr Glu Asp Ile
346   1           5
349 <210> SEQ ID NO: 32
350 <211> LENGTH: 18
351 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/525,126

DATE: 03/08/2005
TIME: 18:04:44

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03082005\J525126.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:298; Xaa Pos. 85
Seq#:302; Xaa Pos. 37,55
Seq#:305; Xaa Pos. 9,10,11,17,21
Seq#:306; Xaa Pos. 2,3,4,6,7,8,12,15,18
Seq#:307; Xaa Pos. 3,4,5,6,8,9,11,12
Seq#:309; Xaa Pos. 15
Seq#:310; Xaa Pos. 11,12,17,18,19,20,21,22,24,29,30
Seq#:311; Xaa Pos. 5,10,12
Seq#:312; Xaa Pos. 3,4,6,7,8,12,13,14,16,19,20
Seq#:315; Xaa Pos. 3,4,5,7
Seq#:316; Xaa Pos. 2,3,4,5,6,7,8,10,12,13
Seq#:317; Xaa Pos. 11,12,17
Seq#:318; Xaa Pos. 2,3,9,10
Seq#:319; Xaa Pos. 13,14
Seq#:320; Xaa Pos. 1,2,3,5,6,10,11,15,19

VERIFICATION SUMMARY

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,126

TIME: 18:04:44

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03082005\J525126.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:5579 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 272
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:80
L:6391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:32
M:341 Repeated in SeqNo=302
L:6529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305 after pos.:0
M:341 Repeated in SeqNo=305
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0
M:341 Repeated in SeqNo=306
L:6632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:0
L:6665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:0
L:6738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310 after pos.:0
M:341 Repeated in SeqNo=310
L:6772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311 after pos.:0
L:6839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:0
M:341 Repeated in SeqNo=312
L:6894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:0
L:6923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316 after pos.:0
L:6947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317 after pos.:0
M:341 Repeated in SeqNo=317
L:6978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0
L:6999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319 after pos.:0
L:7040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:0
M:341 Repeated in SeqNo=320



PCT

RAW SEQUENCE LISTING

DATE: 03/04/2005

PATENT APPLICATION: US/10/525,126

TIME: 12:38:19

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03042005\J525126.raw

3 <110> APPLICANT: NATIONAL RESEARCH COUNCIL OF CANADA
 5 <120> TITLE OF INVENTION: A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM
 6 ANTIMICROBIAL PEPTIDES FROM BONY FISH
 8 <130> FILE REFERENCE: 6899-6/PAR
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/525,126
 C--> 11 <141> CURRENT FILING DATE: 2005-02-18
 13 <150> PRIOR APPLICATION NUMBER: 60/404,922
 14 <151> PRIOR FILING DATE: 2002-08-22
 16 <160> NUMBER OF SEQ ID NOS: 329
 18 <170> SOFTWARE: PatentIn Ver. 3.2

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

7179 <210> SEQ ID NO: 329
 7180 <211> LENGTH: 68
 7181 <212> TYPE: PRT
 7182 <213> ORGANISM: Pleuronectes americanus
 7184 <400> SEQUENCE: 329
 7185 Met Lys Phe Thr Ala Thr Phe Leu Met Met Ala Ile Phe Val Leu Met
 7186 1 5 10 15
 7188 Val Glu Pro Gly Glu Cys Gly Trp Gly Ser Phe Phe Lys Lys Ala Ala
 7189 20 25 30
 7191 His Val Gly Lys His Val Gly Lys Ala Ala Leu Thr His Tyr Leu Gly
 7192 35 40 45
 7194 Asp Lys Gln Glu Leu Asn Lys Arg Ala Val Asp Glu Asp Pro Asn Val
 7195 50 55 60
 7197 Ile Val Phe Glu
 7198 65
 7200 1/127
 E--> 7204 144

10/525,126 2

SEQUENCE LISTING

<110> NATIONAL RESEARCH COUNCIL OF CANADA

<120> A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM
ANTIMICROBIAL PEPTIDES FROM BONY FISH

<130> 6899-6/PAR

<1507> <140> PCT/CA03/01323
<1517> <141> 2003-08-22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/525,126

DATE: 03/04/2005

TIME: 12:38:20

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\03042005\J525126.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:5579 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 272
L:6290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298 after pos.:80
L:6391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302 after pos.:32
M:341 Repeated in SeqNo=302
L:6529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305 after pos.:0
M:341 Repeated in SeqNo=305
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0
M:341 Repeated in SeqNo=306
L:6632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:0
L:6665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:0
L:6738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310 after pos.:0
M:341 Repeated in SeqNo=310
L:6772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311 after pos.:0
L:6839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:0
M:341 Repeated in SeqNo=312
L:6894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315 after pos.:0
L:6923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316 after pos.:0
L:6947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317 after pos.:0
M:341 Repeated in SeqNo=317
L:6978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0
L:6999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319 after pos.:0
L:7040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:0
M:341 Repeated in SeqNo=320
L:7204 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:329